- 1 SID Inspections will be measured and paid in units of each. SID Inspections will be measured
- as one per pier. The contract unit price for SID Inspections will be full compensation for
- 3 inspecting holes with the SID the first time. No additional payment will be made for
- 4 subsequent inspections of the same hole.
- 5 The Contractor is responsible for any damage to the SID equipment due to the Contractor's
- 6 fault or negligence. Replace any damaged equipment at no additional cost to the Department.
- 7 SPT Testing will be measured and paid in units of each. SPT Testing will be measured as the
- 8 number of standard penetration tests performed.
- 9 CSL Testing will be measured and paid in units of each. CSL Testing will be measured as one
- per pier. The contract unit price for CSL Testing will be full compensation for performing
- initial CSL testing and providing CSL reports. Subsequent CSL testing of and CSL reports
- 12 for the same pier will be considered further investigation. No separate payment will be made
- 13 for CSL tubes. CSL tubes including coring for inaccessible tubes and grouting will be
- incidental to the contract unit prices for drilled piers.
- 15 No payment will be made for stuck temporary casings that cannot be removed from drilled
- pier excavations or additional drilled pier length and reinforcing steel required due to
- 17 temporary casings that remain in excavations. No payment will be made for PIT. No
- 18 payment will be made for further investigation of defective piers. Further investigation of
- piers that are not defective will be paid as extra work in accordance with Article 104-7. No

TT .4

- 20 payment will be made for remediation of unacceptable drilled piers or post repair testing.
- 21 Payment will be made under:

Pay Unit
Linear Foot
Linear Foot
Linear Foot
Linear Foot
Each
Each
Each

22 SECTION 412 23 UNCLASSIFIED STRUCTURE EXCAVATION

412-1 DESCRIPTION

24

- 25 Excavate any material not classified as foundation excavation, box culvert excavation or
- 26 channel excavation whose removal is required for the construction of bridges, retaining walls
- of reinforced concrete or reinforced masonry, arch culverts and box culverts without floor
- slabs, and which is classified as unclassified structure excavation in the plans, in accordance
- with the contract or as directed. Excavate, blast, brace, shore, provide sheeting and cribbing,
- 30 backfill, haul and dispose of materials.
- Do not deposit excavated materials, nor construct earth dikes or other temporary earth
- structures, in rivers, streams or impoundment or so near to such waters that they are carried
- into any river, stream or impoundment by stream flow or surface runoff.
- Dispose of all timber, stumps and debris in accordance with Article 200-6.

35 412-2 PRESERVATION OF CHANNEL

- Unless otherwise required by the contract, do not excavate in stream channels. Do not disturb
- the natural stream bed adjacent to the structure without permission.
- Do not place material in a stream without approval. Remove materials placed within the
- stream area and leave the stream in its original condition, unless otherwise permitted.

Section 414

1

13

412-3 UTILIZATION OF EXCAVATED MATERIAL

- 2 Use and place suitable excavated material in accordance with Articles 410-7 and 410-8.
- Notify the Engineer a sufficient time before beginning the excavation so measurements may
- 4 be taken of the undisturbed ground.

5 412-4 MEASUREMENT AND PAYMENT

- 6 The price and payment below will be full compensation for all items required to complete
- 7 unclassified structure excavation including, but not limited to, those items contained in
- 8 Article 412-1.
- 9 Unclassified Structure Excavation at Station _____ will be paid at the contract lump sum price.
- 10 Payment will be made under:

Pay ItemPay UnitUnclassified Structure Excavation at StationLump Sum

SECTION 414 BOX CULVERT EXCAVATION

414-1 DESCRIPTION

- Excavate all material necessary for the construction of box culverts with floor slabs in
- accordance with the contract or as directed. Excavate, blast, drain and divert water, bail,
- pump, brace, shore, provide sheeting, cribbing, cofferdams, culvert foundation conditioning,
- subsurface drainage and drawings; backfill, haul and dispose of materials.
- Do not deposit excavated materials, nor construct earth dikes or other temporary earth
- 19 structures in rivers, streams or impoundment or so near to such waters that they are carried
- 20 into any river, stream or impoundment by stream flow or surface runoff. As an exception to
- 21 the above, obtain written approval for the use of confined earth materials in cofferdams for
- 22 structure foundations.

23 **414-2 MATERIALS**

24 Refer to Division 10.

Item	Section
Foundation Conditioning Material	1016
Stone, No. 78M	1005
Subdrain Fine Aggregate	1044-1

25 414-3 FOUNDATION EXCAVATION

- Notify the Engineer a sufficient time before beginning the excavation so measurements may
- be taken of the undisturbed ground. Do not disturb the existing ground at the culvert site
- without permission.
- Where necessary for safety, slope, shore, brace or protect by cofferdams the foundation
- 30 openings in accordance with State and local safety standards. Perform foundation excavation
- 31 and related work in such sequence that no portion of the culvert will be endangered by
- 32 subsequent operations. Protect completed portions of a culvert from blasting.
- Remove and dispose of boulders, vegetative matter and any other objectionable material.
- Notify the Engineer after excavating each foundation. Do not place any concrete until
- 35 obtaining approval of the excavation depth, the character of the foundation material and
- 36 permission to proceed.
- Take special care not to disturb the bottom of the excavation until immediately before placing
- 38 reinforcing steel and concrete.